This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:** 

1. (Currently Amended) A microorganism cotransformed with a plasmid vector containing a

gene expressing HIV nucleocapsid protein, and a plasmid vector containing HIV psi (w) gene

sequence and  $\beta$ -galactosidase a reporter gene located downstream of the HIV psi ( $\psi$ ) sequence.

2. (Original) The microorganism of claim 1 wherein the plasmid vector containing a gene

expressing HIV nucleocapsid protein is pJCl.

3. (Currently Amended) The microorganism of claim 1 wherein the HIV psi ( $\psi$ ) gene sequence

is selected from the group consisting of SL1234 (SEQ ID NO: 2), SL234 (SEQ ID NO: 5),

SL23 (SEQ ID NO: 4), and SL12 (SEQ ID NO: 3).

4. Canceled.

5. Canceled.

6. Canceled.

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- 7. (Currently Amended) The microorganism of claim  $\frac{1}{22}$  wherein the  $\beta$ -galactosidase reporter gene is SEQ ID NO: 1.
- 8. (Currently Amended) The microorganism of claim 4 7 wherein the plasmid vector containing HIV psi(ψ) gene sequence and β-galactosidase reporter gene is selected from the group consisting of pNHlPsi(SL1234), pNHlPsi(SL234), pNHlPsi(SL23), pNHlPsi(SL12), and pNHlPsi(SL34).
- 9. Canceled
- 10. Canceled
- 11. Canceled
- 12. (Currently Amended) E. coli JM109 (KCCM-10194) cotransformed with a vector pJC1 expressing HIV nucleocapsid protein, and a vector pNH1Psi(SL1234) containing HIV psi( $\psi$ ) gene sequence and  $\beta$ -galactosidase reporter gene (SEQ ID NO : 1) located downstream of the HIV psi( $\psi$ ) sequence.
- 13. (Currently Amended) A microorganism cotransformed with a vector pJC1 expressing HIV nucleocapsid protein, and a vector pNH1Psi(SL234) containing HIV psi ( $\psi$ ) gene sequence and  $\beta$ -galactosidase reporter gene (SEQ ID NO : 1) located downstream of the HIV psi( $\psi$ )

## sequence.

- 14. (Currently Amended) A microorganism cotransformed with a vector pJC1 expressing HIV nucleocapsid protein, and a vector pNHlPsi(SL23) containing HIV psi ( $\psi$ ) gene sequence and  $\beta$ -galactosidase reporter gene (SEQ ID NO : 1) located downstream of the HIV psi( $\psi$ ) sequence.
- 15. (Currently Amended) A microorganism cotransformed with a vector pJC1 expressing HIV nucleocapsid protein, and a vector pNHlPsi(SL12) containing HIV psi ( $\psi$ ) gene sequence and  $\beta$ -galactosidase reporter gene (SEQ ID NO : 1) located downstream of the HIV psi( $\psi$ ) sequence.
- 16. (Currently Amended) A microorganism transformed with a vector pNHlPsi(SL1234) containing HIV psi ( $\psi$ ) gene and  $\beta$ -galactosidase reporter gene sequence (SEQ ID NO : 1) located downstream of the HIV psi( $\psi$ ) sequence.
- 17. (Currently Amended) A microorganism wherein both a plasmid vector containing a gene coding for HIV nucleocapsid protein and a plasmid vector containing HIV psi ( $\psi$ ) gene sequence and  $\beta$ -galactosidase reporter gene (SEQ ID NO : 1) located downstream of the HIV psi( $\psi$ ) sequence are integrated into a chromosome.
- 18. (Original) A method for screening HIV packaging inhibitors which comprises the steps of :

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- (i) culturing the cotransformed microorganism of claim 1;
- (ii) treating the said cotransformed microorganism with putative compounds or compositions of HIV inhibitors; and,
- (iii) measuring the degree of change in  $\beta$ -galactosidase expression in the culture.
- 19. (Currently Amended) The method of claim 21 18 wherein the cotransformed microorganism is *E. coli* JM109 (KCCM-10194).
- 20. Canceled
- 21. (New) The microorganism of claim 1, wherein the  $\beta$ -galactosidase reporter gene expression is downregulated by the interaction of the HIV psi( $\psi$ ) sequence with HIV nucleocapsid protein.
- 22. (New) The microorganism of claim 1, wherein the reporter gene is  $\beta$ -galactosidase.